CLAIMS

5 m 1

8

1

3

Claim 1.

A method of identity vectoring using chained mapping records, the

method including:

comparing a distinguished name or a partial distinguished name with a plurality of

4 mapping records;

replacing a variable from a first matching mapping record with an environmental

6 factor to create a first search criteria, the first matching mapping record indicating the

7 distinguished name or the partial distinguished name; and

comparing the first search criteria with the plurality of mapping records.

Claim 2.

The method of claim 1, further including:

2 generating a security context control block using a user identification from a second

matching mapping record, the second matching mapping record indicating the first search

4 criteria.

1 Claim 3.

The method of claim 1, further including:

replacing a variable from a second matching mapping record with an environmental

factor to create a second search criteria, the second matching mapping record indicating the

4 first search criteria.

The method of claim 3, further including: Claim 4. 1 generating a security context control block using a user identification from a third 2 matching mapping record, the third matching mapping record indicating the second search 3 criteria. The method of claim 1, further including: Claim 5. 1 eliminating a portion of an X.500 distinguished name to create the partial 2 distinguished name used in said comparing the partial distinguished name with the plurality 3 of mapping records. The method of claim 1, further including: Claim 6. 1 generating a security context control block using a user identification from the first 2 matching mapping record if the first matching mapping record includes the user 3 identification. The method of claim 1, further including: Claim 7. 1 providing an X.500 distinguished name for use as the distinguished name used in said 2 comparing the distinguished name with the plurality of mapping records. 3

1	Claim 8. The method of claim 1, further including:
2	providing a system status for use as the environmental factor for said replacing the
3	variable.
1	Claim 9. A system for identity mapping using chained mapping records, the
2	system including:
3	a digital certificate including a distinguished name;
4	a distinguished name mapping record indicative of at least a portion of said
5	distinguished name, said distinguished name mapping record including a first data field, said
6	first data field including a first variable indicative of a first environmental factor;
7	a first criteria mapping record corresponding to a first state of said first environmental
8	factor, said first criteria mapping record including a second data field, said second data field
9	including a first user identity; and
0	a mapping process configured to receive said digital certificate, wherein said mapping
1	process generates a security context control block using said first user identity in response
2	to said first state of said first environmental factor.

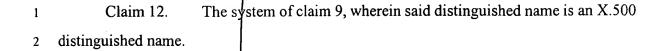
1 Claim 10. The system of claim 9, further including:

- a second criteria mapping record corresponding to a second state of said first
- 3 environmental factor, said second criteria mapping record including a third data field, said
- 4 third data field including a second user identity; and
- 5 wherein said mapping process is further configured to generate a security context control
- 6 block using said second user identity in response to said second state of said first
- 7 environmental factor.

1

Claim 11. The system of claim 9, further including:

- a second criteria mapping record corresponding to a second state of said first
- 3 environmental factor, said second criteria mapping record including a third data field, said
- 4 third data field including a second variable indicative of a second environmental factor;
- a third criteria mapping record corresponding to said second environmental factor,
- 6 said third criteria mapping record including a fourth data field, said fourth data field
- 7 including a second user identity; and
- wherein said mapping process is further configured to generate a security context
- 9 control block using said second user identity in response to said second state of said first
- 10 environmental factor and said third environmental factor.



- 1 Claim 13. The system of claim 10, wherein said first user identity represents a
- 2 first level of network authorization, and said second user identity represents a second level
- 3 of network authorization.
- 1 Claim 14. The system of claim 9, wherein said first environmental factor is a
- 2 network status at the time said digital certificate is received by said mapping process.
- 1 Claim 15. The system of claim 9, wherein said first environmental factor is an
- 2 application status at the time said digital certificate is received by said mapping process.
- 1 Claim 16. The system of claim 9, wherein said first environmental factor is
- 2 included in said digital certificate.

PO-999-151

	1
1	Claim 17. A storage medium encoded with machine-readable computer program
2	code for mapping name space identities to digital certificates, the storage medium including
3	instructions for causing a computer to implement a method comprising:
4	comparing a distinguished name or a partial distinguished name with a plurality of
5	mapping records;
6	replacing a variable from a first matching mapping record with an environmental
7	factor to create a first search criteria, the first matching mapping record indicating the
8	distinguished name or the partial distinguished name; and
9	comparing the first search criteria with the plurality of mapping records.
1	Claim 18. The storage medium of claim 17 further comprising instructions for
2	causing a computer to implement:
3	generating a security context control block using a user identification from a second
4	matching mapping record, the second matching mapping record indicating the first search
5	criteria.
1	Claim 19. The storage medium of claim 17 further comprising instructions for
2	causing a computer to implement:
3	replacing a variable from a second matching mapping record with an environmental
4	factor to create a second search criteria, the second matching mapping record indicating the
5	first search criteria.

21

1	Claim 20. The storage medium of claim 19 further comprising instructions for
2	causing a computer to implement:
3	generating a security context control block using a user identification from a third
4	matching mapping record, the third matching mapping record indicating the second search
5	criteria.
1	Claim 21. The storage medium of claim 17 further comprising instructions for
2	causing a computer to implement:
3	eliminating a portion of an X.500 distinguished name to create the partial
4	distinguished name used in said comparing the partial distinguished name with the plurality
5	of mapping records.
1	Claim 22. The storage medium of claim 17 further comprising instructions for
2	causing a computer to implement:
3	generating a security context control block using a user identification from the first
4	matching/mapping record if the first matching mapping record includes the user
5	identification.

- 1 Claim 23. The storage medium of claim 17 further comprising instructions for 2 causing a computer to implement:
- providing an X.500 distinguished name for use as the distinguished name used in said
 comparing the distinguished name with the plurality of mapping records.
- 1 Claim 24. The storage medium of claim 17 further comprising instructions for 2 causing a computer to implement:
- providing a system status for use as the environmental factor for said replacing the variable.